Providing New Borewells and CC Roads, Drains
Developments in Rachenahalli and Other Adjusted
Layouts.

Second and Part Bill

Quality Control Reports

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QC ABSTRACT

NAME OF WORK: Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-40 cum	37.37	8	8
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	10 set /300-350 cum	346.65	20	20
10	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-02-12-23** **Date: 07-01-21**
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	04-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-02-12-23** **Date: 02-02-21**
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	04-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Date: 07-01-21

Lab ID	:	**CP-2021-02-12-23**
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	04-01-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-12-23** **Date: 07-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-12-23** **Date: 06-01-21**
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	04-01-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-02-12-23 Date: 06-01-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-02-12-23** **Date: 06-01-21**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 04-01-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-01-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-02-12-23 Date: 06-01-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : CP-2021-02-12-23 **Date: 05-01-21**

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 04-01-21

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 04-01-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

b ID : CP-2021-02-12-23 Date: 19-01-21

)ject Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

ency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

stomer's Reference : BBMP/EE/BTP/WO/151/2019-20

te of Receipt : 15-01-21

mple Type /Size : Precast Cover Slab (100mm)

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

te of test : 15/01/2021

l. o.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

ne results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

ab ID	:	CP-2021-02-12-23 **Date: 19-01-21**
roject Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
gency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
ustomer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
ate of Receipt	:	15-01-21
ample Type /Size	:	Precast Cover Slab (250mm)
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
ate of test	:	15/01/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2021-02-12-23

Date: 20/01/2021

oject Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

gency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

ustomer's Reference : BBMP/EE/BTP/WO/151/2019-20

ate of Receipt : 15-01-21

ustomer ID : Drain Bottom Slab Concrete , (Ranganilaya Opp Road)

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 7 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5

ate of test : 20/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/01/2021	20/01/2021	149.35 X 150.16 X 149.35	22426	8.391	418.4	18.7	18.6
2	Drain Bottom Slab Concrete	M20	13/01/2021	20/01/2021	150.89 X 149.14 X 149.44	22504	8.620	423.5	18.8	
3	Drain Bottom Slab Concrete	M20	13/01/2021	20/01/2021	151.18 X 150.08 X 149.64	22689	8.112	413.4	18.2	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ

Page 1/1

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 10/02/2021

Lab ID	:	CP-2021-02-12-23
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	15-01-21
Customer ID	:	Drain Bottom Slab Concrete (Ranganilaya Opp Road)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	13/01/2021	10/02/2021	149.68 X 151.30 X 150.81	22647	8.483	533.1	23.5	23.1
2	Drain Bottom Slab Concrete	M20	13/01/2021	10/02/2021	149.07 X 149.63 X 150.02	22304	8.041	506.3	22.7	
3	Drain Bottom Slab Concrete	M20	13/01/2021	10/02/2021	149.47 X 151.89 X 151.02	22702	8.687	524.9	23.1	

The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/01/2021

Lab ID	:	CP-2021-02-12-23
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	18-01-21
Customer ID	:	Drain Side Wall Concrete, (Ranganilaya Opp Road)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/01/2021	23/01/2021	151.28 X 151.83 X 151.59	22970	8.391	421.9	18.4	18.2
2	Drain Side Wall Concrete	M20	16/01/2021	23/01/2021	149.22 X 151.11 X 149.33	22548	8.620	411.3	18.2	
3	Drain Side Wall Concrete	M20	16/01/2021	23/01/2021	149.66 X 150.59 X 149.96	22537	8.112	406.5	18.0	

The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
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Format No: CP/TF/01

Lab ID : CP-2021-02-12-23

Date: 13/02/2021

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 18-01-21

Customer ID : Drain Side Wall Concrete, (Ranganilaya Opp Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/01/2021	13/02/2021	151.32 X 151.45 X 150.57	22918	8.483	528.9	23.1	22.8
2	Drain Side Wall Concrete	M20	16/01/2021	13/02/2021	151.11 X 149.03 X 149.88	22520	8.041	504.0	22.4	
3	Drain Side Wall Concrete	M20	16/01/2021	13/02/2021	149.19 X 151.80 X 150.10	22647	8.687	521.1	23.0	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-12-23

Date: 25/01/2021

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 20-01-21

Customer ID : Culvert Bottom Slab Concrete, (Mestripalya Cross Road-2)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	18/01/2021	25/01/2021	149.60 X 149.59 X 149.80	22379	8.391	422.0	18.9	
2	Culvert Bottom Slab Concrete	M20	18/01/2021	25/01/2021	151.78 X 150.14 X 149.96	22788	8.620	418.7	18.4	18.5
3	Culvert Bottom Slab Concrete	M20	18/01/2021	25/01/2021	151.12 X 150.22 X 150.62	22701	8.112	416.5	18.3	

The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Page 1/1
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-12-23

Date: 15/02/2021

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 20-01-21

Customer ID : Culvert Bottom Slab Concrete, (Mestripalya Cross Road-2)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	18/01/2021	15/02/2021	150.68 X 149.45 X 150.06	22519	8.483	522.2	23.2	23.1
2	Culvert Bottom Slab Concrete	M20	18/01/2021	15/02/2021	151.54 X 150.87 X 150.70	22864	8.041	513.6	22.5	
3	Culvert Bottom Slab Concrete	M20	18/01/2021	15/02/2021	150.50 X 149.33 X 150.79	22474	8.687	534.8	23.8	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Page 1/1
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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2021-02-12-23 Date: 28/01/2021
ject Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
tomer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
e of Receipt	:	23-01-21
tomer ID	:	Culvert Side Wall Concrete, (Rachenahalli Road)
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	28/01/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Side Wall Concrete	M20	21/01/2021	28/01/2021	150.37 X 149.01 X 150.43	22408	8.391	407.9	18.2	18.7
Culvert Side Wall Concrete	M20	21/01/2021	28/01/2021	149.31 X 149.40 X 150.35	22307	8.620	423.7	19.0	
Culvert Side Wall Concrete	M20	21/01/2021	28/01/2021	150.00 X 150.47 X 150.48	22572	8.112	427.3	18.9	

he results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	CP-2021-02-12-23
Project Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	19-01-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	19-01-21

Date: 21-01-21

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

ab ID : CP-2021-02-12-23

Date: 02/03/2021

roject Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

gency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

ustomer's Reference : BBMP/EE/BTP/WO/151/2019-20

ate of Receipt : 04-02-21

ustomer ID : Cement Concrete Pavement, (Balaji Medical to general Store Road)

ample Type /Size : 150X150X150 mm

ample grade/Age : M30 / 28 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ate of test : 02/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	149.37 X 151.92 X 151.84	22692	8.192	752.4	33.2	33.1
2	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	150.73 X 150.12 X 151.03	22627	8.508	745.6	33.0	
3	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	151.86 X 150.46 X 150.20	22849	8.365	759.4	33.2	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-12-23

Date: 09/02/2021

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 04-02-21

Customer ID : Cement Concrete Pavement, (R.K minerals Opp Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/02/2021

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/02/2021	09/02/2021	150.77 X 149.26 X 151.59	22505	8.486	570.5	25.4	25.4
2	Cement Concrete Pavement	M30	02/02/2021	09/02/2021	150.61 X 151.01 X 149.59	22743	8.837	605.2	26.6	
3	Cement Concrete Pavement	M30	02/02/2021	09/02/2021	151.71 X 149.04 X 151.33	22610	8.559	548.6	24.3	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-12-23

Date: 02/03/2021

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 04-02-21

Customer ID : Cement Concrete Pavement (R.K minerals Opp Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	151.38 X 149.59 X 151.68	22645	8.192	766.8	33.9	33.2
2	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	150.02 X 150.63 X 149.95	22598	8.508	729.7	32.3	
3	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	151.50 X 151.48 X 150.64	22950	8.365	767.7	33.4	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Page 1/1

****End of Report****

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-12-23

Date: 09/02/2021

Project Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 04-02-21

Customer ID : Cement Concrete Pavement, (Ganesha Temple Opposite Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/02/2021

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/02/2021	09/02/2021	150.78 X 149.78 X 151.53	22584	**8.236**	581.7	25.8	25.5
2	Cement Concrete Pavement	M30	02/02/2021	09/02/2021	149.83 X 151.02 X 150.78	22627	**8.399**	601.3	26.6	
3	Cement Concrete Pavement	M30	02/02/2021	09/02/2021	150.76 X 151.56 X 149.88	22849	**8.220**	549.8	24.1	

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

) ID	:	CP-2021-02-12-23
		Date: 02/03/2021
ject Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
ncy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
tomer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
e of Receipt	:	04-02-21
tomer ID	:	Cement Concrete Pavement, (Ganesha Temple Opposite Road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M30 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	02/03/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	151.39 X 150.41 X 150.27	22770	8.192	765.0	33.6	33.2
	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	150.29 X 150.83 X 149.34	22669	8.508	741.2	32.7	
	Cement Concrete Pavement	M30	02/02/2021	02/03/2021	150.74 X 151.70 X 149.05	22868	8.365	765.0	33.5	

: results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 10/02/2021

D	:	CP-2021-02-12-23
ct Name	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
cy	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
mer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
of Receipt	:	05-02-21
mer ID	:	Cement Concrete Pavement, (Madivala Road)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M30 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	10/02/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/02/2021	10/02/2021	151.00 X 150.61 X 150.87	22742	8.371	575.6	25.3	25.2
Cement Concrete Pavement	M30	03/02/2021	10/02/2021	149.74 X 149.36 X 150.75	22365	8.903	581.8	26.0	
Cement Concrete Pavement	M30	03/02/2021	10/02/2021	149.89 X 150.48 X 151.21	22556	8.513	550.2	24.4	

results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Certificate No.: TC-55

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2021-02-12-23

Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

Date: 03/03/2021

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

er's Reference : BBMP/EE/BTP/WO/151/2019-20

Receipt : 05-02-21

er ID : Cement Concrete Pavement, (Madivala Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 03/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/02/2021	03/03/2021	150.57 X 151.40 X 151.52	22796	8.192	772.6	33.9	33.4
Cement Concrete Pavement	M30	03/02/2021	03/03/2021	149.95 X 150.71 X 151.63	22599	8.508	735.5	32.5	
Cement Concrete Pavement	M30	03/02/2021	03/03/2021	151.81 X 151.19 X 150.52	22951	8.365	776.7	33.8	

ults obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2021-02-12-23	Date: 10/02/2021
ID	: Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.	
ner Name	: Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010	
ncy		
mmer's Reference	: BBMP/EE/BTP/WO/151/2019-20	
of Receipt	: 05-02-21	
mmer ID	: Cement Concrete Pavement, (Ganesha Temple Front Portion)	
ple Type /Size	: 150X150X150 mm	
ple grade/ Age	: M30 / 7 Days Compressive Strength	
rence to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
of test	: 10/02/2021	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/02/2021	10/02/2021	151.33 X 149.56 X 151.39	22633	8.153	566.1	25.0	25.4
Cement Concrete Pavement	M30	03/02/2021	10/02/2021	151.98 X 149.92 X 150.40	22784	8.449	614.9	27.0	
Cement Concrete Pavement	M30	03/02/2021	10/02/2021	149.93 X 150.62 X 149.56	22583	8.722	543.6	24.1	

results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-12-23 **Date: 03/03/2021**

Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

er's Reference : BBMP/EE/BTP/WO/151/2019-20

Receipt : 05-02-21

er ID : Cement Concrete Pavement, (Ganesha Temple Front Portion)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 03/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/02/2021	03/03/2021	150.17 X 150.75 X 149.02	22639	8.192	757.3	33.4	33.2
Cement Concrete Pavement	M30	03/02/2021	03/03/2021	150.40 X 150.68 X 150.79	22662	8.508	740.9	32.7	
Cement Concrete Pavement	M30	03/02/2021	03/03/2021	150.25 X 150.38 X 150.79	22594	8.365	758.5	33.6	

sults obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/02/2021

: CP-2021-02-12-23

me : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

; Reference : BBMP/EE/BTP/WO/151/2019-20

ceipt : 05-02-21

D : Cement Concrete Pavement, (Lakshmi Narasimha Swamy House opp Road)

pe /Size : 150X150X150 mm

de/Age : M30 / 7 Days Compressive Strength

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 10/02/2021

entification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ient Concrete Pavement	M30	03/02/2021	10/02/2021	151.35 X 150.75 X 150.41	22816	8.814	589.5	25.8	25.6
ient Concrete Pavement	M30	03/02/2021	10/02/2021	151.68 X 150.66 X 151.75	22851	8.516	610.3	26.7	
ent Concrete Pavement	M30	03/02/2021	10/02/2021	150.00 X 150.29 X 150.55	22543	8.684	544.5	24.2	

btained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-12-23 **Date: 03/03/2021**

Name : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

ıer's Reference : BBMP/EE/BTP/WO/151/2019-20

'Receipt : 05-02-21

ıer ID : Cement Concrete Pavement, (Lakshmi Narasimha Swamy House opp Road)

Type /Size : 150X150X150 mm

grade/Age : M30 / 28 Days Compressive Strength

ıce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 03/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	03/02/2021	03/03/2021	151.94 X 149.25 X 149.78	22677	8.192	760.5	33.5	33.2
Cement Concrete Pavement	M30	03/02/2021	03/03/2021	149.54 X 149.95 X 150.23	22423	8.508	725.1	32.3	
Cement Concrete Pavement	M30	03/02/2021	03/03/2021	150.79 X 150.07 X 151.24	22629	8.365	762.0	33.7	

sults obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-12-23 **Date: 11/02/2021**

D : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

ct Name : Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

cy :

mer's Reference : BBMP/EE/BTP/WO/151/2019-20

of Receipt : 06-02-21

mer ID : Cement Concrete Pavement, (Govt School Road)

le Type /Size : 150X150X150 mm

le grade/Age : M30 / 7 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 11/02/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	04/02/2021	11/02/2021	150.58 X 151.01 X 150.76	22738	8.616	581.9	25.6	25.6
Cement Concrete Pavement	M30	04/02/2021	11/02/2021	149.37 X 149.89 X 151.80	22389	8.722	603.8	27.0	
Cement Concrete Pavement	M30	04/02/2021	11/02/2021	151.07 X 151.68 X 149.16	22914	8.600	558.5	24.4	

Results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

CP-2021-02-12-23 **Date: 11/02/2021**

ID	:	Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.
ect Name	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
er	:	BBMP/EE/BTP/WO/151/2019-20
mer's Reference	:	06-02-21
of Receipt	:	Cement Concrete Pavement, (Ambabavani temple Road)
mer ID	:	150X150X150 mm
le Type /Size	:	M30 / 7 Days Compressive Strength
le grade/Age	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
nce to BIS codes		
f test	:	11/02/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	04/02/2021	11/02/2021	149.99 X 149.18 X 149.67	22377	8.806	568.3	25.4	25.6
Cement Concrete Pavement	M30	04/02/2021	11/02/2021	149.95 X 151.30 X 150.71	22687	8.142	601.7	26.5	
Cement Concrete Pavement	M30	04/02/2021	11/02/2021	150.45 X 151.16 X 149.24	22742	8.424	565.5	24.9	

lts obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-12-23 **Date: 04/03/2021**

me : Providing New Borewells and CC Roads, Drains Developments in Rachenahalli and Other Adjusted Layouts.

: Executive Engineer, Karnataka Rural Infrastructure Development Ltd,#280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

s Reference : BBMP/EE/BTP/WO/151/2019-20

ceipt : 06-02-21

ID : Cement Concrete Pavement, (Ambabavani temple Road)

pe /Size : 150X150X150 mm

ade/Age : M30 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 04/03/2021

dentification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ement Concrete Pavement	M30	04/02/2021	04/03/2021	151.64 X 151.17 X 151.11	22923	8.192	764.8	33.4	33.1
ement Concrete Pavement	M30	04/02/2021	04/03/2021	151.19 X 151.90 X 151.53	22965	8.508	754.4	32.9	
ement Concrete Pavement	M30	04/02/2021	04/03/2021	151.40 X 151.32 X 150.54	22910	8.365	759.8	33.2	

its obtained are satisfactory as per standard requirements.

Page 1/1
End of Report****

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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